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71 Applicant: **Allen-Bradley Company**
1201 South Second Street
Milwaukee Wisconsin 53204(US)

72 Inventor: **Nolan, Dennis C.**
2720 N. Frederick Avenue Apt. 241
Milwaukee, WI 53211(US)

74 Representative: **Lippert, Hans, Dipl.-Ing. et al,**
Reichel und Reichel Parkstrasse 13
D-6000 Frankfurt (Main) 1(DE)

54 **Compensated ramp generating circuit for controlling SCR firing.**

57 Ramp generating circuits (23), for synchronizing SCR firing control signals to the phase-varying signals derived from a three-phase AC power source (9), each have a compensating circuit (39 to 46) connected across an operational amplifier (29) and a capacitor (30) to control the peak value of the ramp signal generated at the output of the operational amplifier (29). The compensating circuit (39 to 46) maintains the peak value of the ramp signal close to its calculated value despite variations in the actual value of the capacitor (30) from its normal or rated value and despite changes in power line frequency between 50 hertz and 60 hertz. The compensating circuit (39 to 46) includes a T-section passive network (39, 40, 41), a voltage following amplifier (42) and several feedback resistors (44, 45) connected from the output of the operational amplifier (29) to its inverting (-) input. This compensating circuit (39 to 46) increases or decreases charging current to the capacitor (30) according to the type of compensation that is necessary.

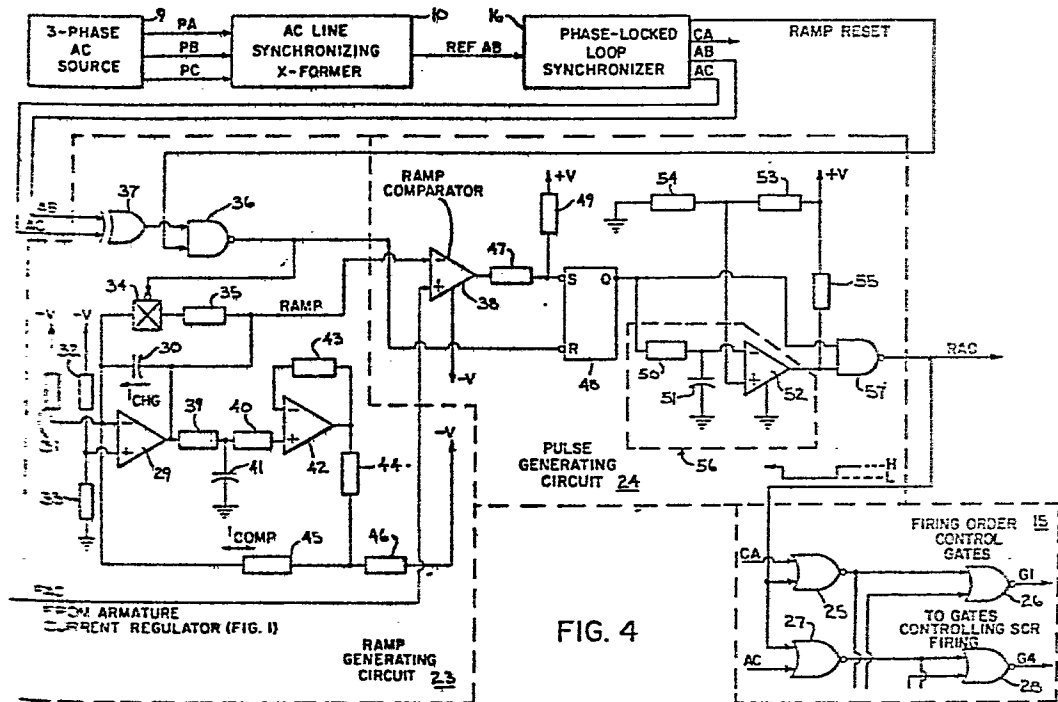


FIG. 4



European Patent
Office

EUROPEAN SEARCH REPORT

0137249
Application number

EP 84 10 9974

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	EP-A-0 011 533 (THOMSON-CSF) * page 3, line 4 - page 7, line 23; figure 1 *	1	H 02 P 5/172 H 02 P 7/00 H 03 K 4/56
A	---	2, 3	
A	SOVIET INVENTIONS ILLUSTRATED, Week C 13, 7th May 1980, abstract no. R55 C8747, Derwent Publications Ltd., London, GB; & SU - A - 674 206 (SEREDIN AA) 19-07-1979 * abstract, figure *	1-3	
A	--- EP-A-0 003 510 (MOOG GMBH) * page 7, line 1 - page 9, line 38; figure 3 *	1	
	-----		TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			H 02 P 5/00 H 02 P 7/00 H 03 K 4/00
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 19-02-1986	Examiner WEIHS J.A.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

